FEDERAL TRADE COMMISSION

"Tar". Nicotine and Carbon Monoxide Content of Domestic Cigarettes

AGENCY: Federal Trade Commission. ACTION: Publication of "tar", nicotine and carbon monoxide content of the smoke of 200 varieties of cigarettes.

SUMMARY: The Federal Trade Commission publishes the "tar". nicotine and carbon monoxide content of domestic cigarettes.

FOR FURTHER INFORMATION CONTACT: Andrew Sacks, Bureau of Consumer Protection, Federal Trade Commission. Washington, D.C. 20580 (202-724-1490) or Harold Pillsbury, Bureau of Consumer Protection, Federal Trade Commission. Washington, D.C. 20580 (202-523-3559).

SUPPLEMENTARY INFORMATION: The Federal Trade Commission's Laboratory has determined the "tar" (dry particulate matter), total alkaloid freported as nicotine) and carbon monoxide content of 200 varieties of cigarettes. The laboratory utilized the Cambridge filter method with the following specifications as set forth in the Commission's announcement of July 31, 1967:

- 1. Smoke cigarettes to a 23 mm, butt length, or to the length of the filter and overwrap plus 3 mm. if in excess of 23 mm.
- Base results on a test of approximately 100 cigarettes per brand, or type.
- 3. Cigarettes to be tested will be selected on a random basis, as opposed to "weight selection".
- 4. Determine particulate matter on a "dry basis employing the gas chromatography method published by C. H. Sloan and B. L.: Sublett in Tobacco Science 9, page 70, 1965, as modified by F. J. Schultz' and A. W. Spears' report published in Tobacco Vol. 162, No. 24, page 32, dated June 17, 1966, to determine the moisture content.
- 5. Determine and report the "tar" content after subtracting moisture and alkaloids (as nicotine) from particulate matter.

6. Carbon Monoxide is determined by nondispersal infrared spectrophotometer.

Concerning the 200 varieties tested, 15 were capable of being smoked to 23 mm. The butt length of the other 185 varieties tested ranged from 24.1 mm. to an average of between 48.6 to 50.0 mm. The butt lengths of 159 of the 200 varieties tested exceed 30 mm.

The samples used were obtained by attempting to purchase two packages of each variety of cigarettes as distributed by domestic cigarette manufacturers ... during March and April 1981 in each of 50 geographic locations throughout the country. All varieties of cigarettes were not available in each of the 50 geographic locations and in these instances, one or more additional packages of cigarettes were purchased in those geographic locations where respective varieties were available. The sample utilized in the tests were representative of the 200 varieties of cigarettes as available throughout the country at the time of purchase.

A group of cigarette companies has filed a complaint with the Commission alleging that the current cigarette testing methodology does not accurately assess the "tar" and nicotine that Barclay cigarettes deliver relative to the "tar" and nicotine that other cigarette brands deliver. The complainant cigarette companies further allege that Barclay, a 1 mg. cigarette under the current FTC method, delivers more "tar" to the smoker than do other 1 mg. "tar" cigarette brands.

The complainant cigarette companies state that a cigarette manufacturer can reduce the "tar" delivery of a cigarette by a variety of different methods. One way to decrease "tar" delivery involves diluting the cigarette smoke inhaled with air brought into the filter through some form of ventilation. The higher the percentage diluted air inhaled, the lower - Carol M. Thomas, the "tar" delivery. Methods to increase the amount of ventilation or air dilution. vary from brand to brand. Many low

"tar" cigarettes have a filter surrounded by porous paper with one or more rows of ventilating holes encircling the filter. When the filter is puffed, air enters the filter through the ventilation holes where it mixes with the smoke.

In the Barclay filter, air entering the ventilation holes travels to the smoker's mouth through four grooves in the filter. The complainant cigarette companies allege that when consumers smoke Barclay cigarettes, the four grooves either collapse or are in some way blocked. When tested in the FTC laboratory using the current cigarette holder, however, the companies allege that the grooves do not collapse and are not blocked. Thus, it is contended that the Commission's current testing methodology does not accurately measure the relative level of "tar" delivered by Barclay to smokers when compared with other 1 mg. "tar" cigarettes. The Commission is currently investigating these allegations, and has not made a final determination on the merits of this complaint. An asterisk is appended to the test scores included in this report that this investigation may effect

It also should be noted that cigarette brands which recorded "tar" scores below 0.5 mg., nicotine below 0.05 mg. and carbon monoxide below 0.5 mg. per digarette in this test are recorded in the accompanying tables as <0.5 mg. "tar." <0.05 mg. nicotine and <0.5 mg. carbon monoxide. The tables do not differentiate between these cigarettes because the current, approved testing methodology is not sensitive enough to differentiate between cigarettes at these levels.

By direction of the Commission. Secretary.

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TARI . NICOTINE and CARBON MONOXIDE CONTENT of TWO-HUNDRED (200) VARIETIES of DOMESTIC CIGARETTES

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| enson & Hedges 1 enson & Hedges L | 00's | 100 mm, filter | 10 | 1.0 | 15 | iv: ∠ |
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| | שיושור סותהו | 100 mm, filter, (hard pack) | - · · · · · · · · · · · · · · · · · · · | · : • | | 医乳腺性 医髓囊 |
| | | the state of the s | 10 | 0.7 | 11 | And the second |
| | | 100 mm, filter, menthol, (hard pack) | 10 | 0.7 | . 11 | |
| enson & Hedges L | | 100 mm, filter | 10 | 0.7 | 13 " | , |
| nson & Hedges L | ignts 100's | 100 mm, filter, meNthol | 10 | 0.7 | 12 | • |
| ill Durham | | king size, filter | 29 | 1.9 | 24 | يرويق معاور ي |
| imbridge³ | ٤. | king size, filter, (hard pack) | <0.5 ^{*7} ` | < 0.05 | < 0.5 | - No. 12 3 |
| mbridge | () | king size, filter | < 0.5 | 0.1 | 1 | A Training to the State of the |
| mbridge 100's | | 100 mm, filter 6: | 3 30 | 0.3 | 5 | n Silver in Land |
| mel | • • | reg. size, non-filter | | 1.4 | | ಪ್ರಜನಿಕ ಚಿತ್ರಗಳು |
| mel | | | 21 | | 13 | 27.15 |
| | . · · · · · | king size, filter | 16 | 1.2 | 16 | THE THE SALE |
| mel Lights | | king size, filter, (hard pack) | 6 | 0.6 | 7 | |
| met Lights | | king size, filter | . 8 | 0.7 | 10 | نيار ماسي |
| mel Lights 100's | - | 100 mm, filter | TOTAL 12 . T | 0.9 | 15 | 17.77 |
| riton³ | • • • | king size, filter, (hard pack) | ₹0.5 | < 0.05 | < 0.5 | ್ಷ ನಿವರ್ಷ-೧ |
| riton³ ' | | king size, filter | < 0.5 | 0.1 | | 5.0 |
| riton ^a | , | king size, filter, menthol | <0.5 | 0.1 | • | . See |
| riton 100's³ | - | | | | | ត្រាធារាជន ឆ |
| | | 100 mm, filter, (hard pack) | < 0.5 | 0.1 | 1 | and the state of |
| riton 100's | . , | 100 mm, filter, menthol, (hard pack) | < 0.5 | 0.1 | 1 | |
| riton 100's | <u>.</u> | 100 mm, filter | 4 | 0.4 | - 6 | |
| riton 100's | ٠ | 100 mm, filter, menthol | . 3 | 0.3 | 4 | |
| riton 120's | | 120 mm, filter | 6 | 0.6 | 6 | |
| riton 120's | , | 120 mm, filter, menthol | 5 | 0.5 | 5 | * |
| esterfield . | | reg, size, non-filler | 94 10 100 1 | 1.3 | 13 | |
| esterfield | | king size, non-titter | 26 | 1.7 ^, | | **.y |
| | | | 25 | | 16 | |
| esterfield | | king size, filter | 15 | 1.0 | 15 | Button of the stage |
| esterfield 101 | | 101 mm, filter - | 15 | 1.1 | 16 | ery war it and the second |
| ade | • _ | king size, filter | 5 | 0.4 | 4 | - 4-1 |
| cad e | | king size, filter, menthol | 5 | 0.4 | : 4 | - 4 |
| ade 100's - | | 100 mm, filter | 8 | 0.8 | 7 | • • |
| ał II | • | king size, filter | 4 💝 | 0.4 | à | · • • |
| al II ' | | king size, filter, menthol | 1 | 0.4 | | |
| | . • | king size, filter, (hard pack) | , , , , , , , , , , , , , , , , , , , | | | •• |
| lish Ovais | | | . 15 | 1.0 | 17 | |
| | | reg. size, non-filter, (hard pack) | 23 | 1.7 | 12 | •, |
| lish Ovals | • | king size, non-filter, (hard pack) | 28 | 2.1 - | 15 | • |
| 100's | • | 100 mm, filter | 15 | 1.2 | 14 | • • |
| 100's | | 100 mm, filter, menthol | · 15 | 1.2 | . 14 ' | |
| Lights 120's | | 120 mm, filter, (hard pack) | 14 | 1.1 | 13, | |
| Lights 120's | •• | 120 mm, filter, menthol, (hard pack) | . 14 | 1.1 | 12 | |
| | | | • | | | |
| axy | • • | king size, filter | 14 | 1.0 | 13 | |
| den Lights | | king size, filter | 7 | 0.7 | 8 | • |
| den Lights | | king size, filter, menthol | 6 . | 0.7 | 8 | |
| den Lights 100's | | 100 mm, filter | 5 B | 0.8 | 9 | |
| den Lights 100's | | 100 mm, filter, menthol | 7 | 0.7 | 7 | |
| f & Half | ÷ | king size, filter | 16 | 1.3 | 15 | 1 m 2 m |

All scores below 6.5 mg. "tar," 6.05 mg. nicotine and 0.5 mg. carbon monoxide reported as < 0.5, < 0.05, < 0.5, respectively

See statement in text concerning Barclay.

| BRAND | TYPE | TAR (mg/clg) | NICOTINE (mg/cig) | CARBON MONOXIDE (mg/cig) |
|------------------------------------|---|--|------------------------------|--|
| Stanton & Western | | - - | | |
| Herbert Tareyton Hi-Lite 100's | king size, non-filter | ······································ | ~~ ~1.7~~ · | |
| Iceberg 100's | 100 mm, fliter, (hard pack) | 12 | 0.9 | 13 |
| Kent | 100 mm, filter, menthol | 2 | 0.3 | 4 |
| Kent | king size, filter, (hard pack) king size, filter | 12 | 1.0 | 12 |
| Kent III | king size, filter | , 13 2 | 1.0 | 13 |
| Kent 100's | - 100 mm, filter | .14 | 0.3 | 3 |
| Kent 100's | 100 mm, filter, menthol | 15 | 1.2 1.2 | 13 ang ang ang a |
| Kent III 100's | 100 mm, filter | 4 | : 0.5 | 14 7 |
| Kool | reg. size, non-filter, menthol | 19 | 1.1 | 14 |
| Kool | king size, filter, menthol, (hard pack) | 18 | 1.2 | 16 |
| Kool | king size, filter, menthol | 16 | 1.1 | 17 |
| Kool Milds | king size, filter, menthol | 4 11 | 0.9 | 12 |
| Kool Super Lights | king size, filter, menthol | ₿. | 0.5 | . 7 |
| Kool Super Longs 100's | 100 mm, filter, menthol | . 14 | 1.0 | 16 |
| Kool Milds 100's | 100 mm, filter, menthol | 12 | 1.0 | 13 |
| Kool Super Lights 100's | 100 mm, filter, menthol | . 9 | . 0.7 | 12 |
| L&M | king size, filter, (hard pack) | 15 | 1.0 | 14 |
| L&M | king size, filter | 14 | ·. 1.0 · | , 15 |
| L&M Lights | king size, filter | 8 | 0.7 | 7 |
| L & M 100's L & M Lights 100's | 100 mm, filter | , 15 | 1.1 | 16 a graven see 🖘 |
| L & M Lights 100's | 100 mm, filter | or seena o Z in i | 0.7 | 6 |
| Lark | 100 mm, filter, menthol | | D.8 → _ | ි දැම් දැන් මුද ම එක්සේ |
| Lark Lights | king size, filter | • 6 14 m | . a. .14 | jing ji 14 ngayerê Meza¥i |
| Lark 100's | king size, filter | 111 | _{∫ 1} }+ 0.6 | in the second of |
| Lark Lights 100's | 100 mm, filter | 16 | 1.2 | <u>15</u> ্ত্তের চন্ট্রকরী |
| Long Johns 120's | 120 mm, filter | 7 m | • | . 7 |
| Long Johne 120le | 120 mm, filter, menthol | 16 | 1.3 | ্ৰা8 ⊹লমুলম্ভ বস্থা |
| Lucky Strike | reg. size, non-filter | 24 | 1.5 | 17 130 |
| Lucky Ten | king size, filter | . 8 | 0.6 | _ |
| Lucky 100's | 100 mm, filter | * ` 3 | 0.3 | 9 |
| Marlboro | king size, filter, (hard pack) | 16 | 1.0 | 14 |
| Marlboro | king size, filter, menthol, (hard pack) | . 15. | 0.9 | 14 |
| Mariboro | king size, filter | 16 | 1.0 | 15 |
| Mariboro | king size, filter, menthol | . 14 | 0.9 | 14 |
| Mariboro Lights | king size, filter, (hard pack) | 10 | 0.7 | . 12 |
| Mariboro Lights | king size, filter | Sec. 22. 11 (1997) | 0.7 | آ فهارد الهريدة |
| Mariboro 100's | 100 mm, filter, (hard pack) | 16 | 1.1 | 16 (200 acm acm |
| Mariboro 100's | 100 mm, filter | _{ič} 16 . | 5 / 1. 1 | 16 - albar mahmad (|
| Mariboro Lights 100's Max 120's | 100 mm, filter | 10 | 0.7 | . 12 ୁୁୁୁୁଘଡ଼∉ା≒ଅଞ୍ଜି ି |
| Max 120's | 120 mm, filter | շ 19 | 1.6 | . 18 Jacks 20 10 |
| Merit | 120 mm, filter, menthol | (/ 19 g) | 1.6 | 18 |
| Merit | king size, filter | 7 | . 0.5 | 10 ಕ್ರಿಪ್ರಿಸಿಸಿಕ್ ವಿಕ್ರಿ |
| Merit Ultra Lights | king size, filter, menthol king size, filter | 11 (| 0.5 | 10 10 10 14 14 15 15 15 |
| Merit Ultra Lights | king size, filter, menthol | 3 | 0.3 | \$20 Security (12) |
| Merit 100's | 100 mm, filter | 3 16 10 | 0.7 | 4.4 |
| Merit 100's | 100 mm, filter, menthol | . 9 | 0.7 | 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Montelair | king size, filter | 14 | 1.0 | 11 ද අවසා එයක් ව 16 වැඩියාමය |
| More 120's | 120 mm, filter | 18 | 1.4 | 20 |
| More 120's | 120 mm, filter, menthol | - 18 | 1.5 | 20 |
| Multifilter . | king size, filter | . 12 . | 0.8 | المراجعة المراجعة المراجعة المراجعة |
| Multifilter _ | king size, filter, menthol | 12 | 0.8 | 11 StarC recipita |
| Newport | king size, filter, menthol, (hard pack) | 16 | 1.2 | 16 |
| Newport | king size, filter, menthol | 17 | 1.3 | 18 - 500-55 |
| Newport Lights | king size, filter, menthol, (hard pack) | .8 . | 0.7 | 10 Good Alroyd #43 |
| Newport Lights | king size, filter, menthol | . B . 1 | | 10 2 937 270 514 517 |
| Newport 100's | 100 mm, filter, menthol | 20 | 1.6 | 20 yr 🐠 |
| Now ³ | king size, filter, (hard pack) | < 0.5 | 0.1 | <0.5 × 10 × 10 × 100 × 10 × 10 × 10 × 10 × |
| Now | king size, filter | 2 | 0.2 | ್ 3 ್ನ ಿ ಪ್ರಕಾಣ ಗಾಣಿಸಲ್ |
| Now 100's | king size, filter, menthol | 2 | . , . 0.2 | 3 3 GDF + 7215 PT 21 GT - 1 |
| Now 100's ² | 100 mm, filter, (hard pack) | < 0.5 | < 0.05 | `` <0.5 ⇔∯າ ∦ລປູບ າ∌.45 3 1: |
| Now 100's Now 100's | 100 mm, filter | 1 | 0.2 *** | training the second second |
| 104 100 3 | 100 mm, filter, menthol | , i | 0.2 | • |

^{*} All scores below 0.5 mg, "lat," 0.05 mg, nicotine and 0.5 mg, carbon monoxide reported as < 0.5 < 0.05 < 0.5 segmentions.

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| | | | TAR | NICOTINE | CARBON M | ONOXIDE |
|--|--------------------------------------|-----------|----------------|--|----------------|--|
| BRAND | TYPE | | (mg/cig) | (mg/cig) | (mg/c | ig) : ; |
| • | | ., | | - | - | • |
| Dasis | king size, filter, menthol | •• | | 307 1.0 | | e de la companya de |
| Old Gold Straights : , | king size, non-filler | ٠, | 26 | | | المعمر عياده الإنهاج |
| lid Gold Filters | king size, filter 🦠 | CHINARY I | | | - 19 | |
| id Gold Lights | king size, filter | | 10 | 0,9 | . 10 | |
| ld Gold Filters | 100 mm, filter | | | n. *** v. 1.5 | 20 | |
| un Mali | king size, non-filter | - | _ | ea,ta. ≠ 1.5 a.a. * | 17 | |
| nii Mali | king size, filter | | 18 | .; ; , 1.2 | 18 | |
| all Mail Extra Lights | king size, filter 😀 | ٠. | - 6 | . 19 44 (1. 0.5 ±15 g) | _ | े १ कि के अध्यक्षकारण |
| all Mall 100's | 100 mm, filter | | . 17 | ~e) (e 1.3 −) | | موجيميها والريموط أأواه أ |
| ali Mail Lights 100's | 100 mm, filter ex Square | | 9 | 0.8 | S | l sich wither title t |
| all Mall Lights 100's | 100 mm, filter, menthol | ė. | - 12 | g 842 (c. n. 1.1 c. n. 7) | 12 | |
| arliament Lights | king size, filter, (hard pack) | | 9 | 0.6 | 10 | |
| arliament Lights | king size, filter | | 9 | 0.6 | 10 | |
| arliament Lights 100's | 100 mm, filter | | . 12 | 0.9 | 11 | |
| hilip Morris . | reg. size, non-filter | | 21 | 1.4 | 12 | |
| hilip Morris Commander | king size, non-filter | • | 27 | 1.7 | 15 | |
| hilip Morris International 100's | 100 mm, filter, (hard pack) | | 16 | 1.1 | 16 | ٠ ٠ ١ |
| hitip Morris International 100's | 100 mm, filter, menthol, (hard pack) | | 16 | 1.0 | 15 | • |
| icayun a | reg, size, non-filter | | 19 | 1.4 | 15 | |
| layers | reg. size, non-filter, (hard pack) | | 24 · | 1.9 | . 14 | • |
| aleigh | king size, non-filter | | 22 . | 1.3 | 17 | • |
| aleigh | king size, filter | | 15 | . 1.0 | 17 | • |
| aleigh Lights | king size, filter | | . 8 | 0.7 | 11 | |
| aleigh 100's | 100 mm, filter | | 16 | 1.1 | 17 | the second of the second |
| aleigh Lights 100's | 100 mm, filter | • | 0 | 0.8 | 13 | 70 S. 44, 54, |
| t. Moritz 100's | 100 mm, filter | | - 14 | 1.1 | 13 | , , , , , , , , , , , , , , , , , , , |
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| alem 100's | 100 mm, filter, menthol | | 9 | 0.8 | 11 | |
| alem Lights 100's | 100 mm, filter, menthol | • | I | 0.4 | - 5 | , , |
| alem Ultra 100's | 120 mm, filter, (hard pack) | | 15 | 1.0 | 18 | |
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| areyton Ultra Low Tar | king size, filter, menthol | | | 0.1 | | i i |
| ereyton 100's | 100 mm, filter | | . 14 | 1.1 | 10 | |
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| tumph , . | king size, filter | | 3 | 0.4 | 3 | 1 |
| lumph * | king size, filter, menthol | | 2 | 0.3 | - | |
| iumph 100's | 100 mm, filter | | 4 | 0.5 | | |
| iumph 190's | 100 mm, filter, menthol | , | 4 | 0.5 | 5 | ' · · · |
| ue | king size, filter | | 4 | 0.4 | - 5 | _ |
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| BRAND | TYPE | TAR NICOTINE (mg/cig) | CARBON MONOXIDE (mg/cig) |
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| irginia Slims 100's | 100 mm, filter, menthol | 15 1.0 | 44 |
| irginia Slima Lighta 100's | 100'mm, filter, (hard pack) | 7 | g en |
| rginia Slims Lights 100's | 100 mm, filter, menthol, (hard pack) | 7 0.8 | 8 |
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| inston Ultra 100's | 100 mm, filter | 5 0.5 | The state of the s |
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